PAGE

03

U.S. Patent Application No. 10/544,254 Amendment dated April 10, 2007 Reply to Office Action of January 12, 2007

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

- 1. (Currently amended) A medicament for preventing, inhibiting, or treating adhesion formation of the tissue surface within a vertebrate subject, wherein the medicament contains an effective amount of at least one protease inhibitor and is administered intravenously, orally, or percutaneously.
- 2. (Currently amended) The medicament for preventing, inhibiting or treating adhesion formation according to Claim 1, wherein the protease inhibitor is a serine protease inhibitor.
- 3. (Currently amended) The medicament for preventing, inhibiting or treating adhesion formation according to Claim 2, wherein the serine protease inhibitor is a chymotrypsin-like serine protease inhibitor.
- 4. (Currently amended) The medicament for preventing, inhibiting or treating adhesion formation according to Claim 3, wherein the chymotrypsin-like serine protease inhibitor is a chymase inhibitor.
- 5. (Currently amended) The medicament for preventing, inhibiting or treating adhesion formation according to Claim 4, in which the relevant chymase inhibitor is a peptide derivative of aryl diester of alpha-aminoalkylphosphonic acid.

U.S. Patent Application No. 10/544,254 Amendment dated April 10, 2007 Reply to Office Action of January 12, 2007

04/10/2007 12:09

- 6. (Currently amended) The medicament for preventing, inhibiting or treating adhesion formation according to Claim 4, wherein the chymase inhibitor is Suc-Val-Pro-Phe^P(OPh)₂.
- 7. (Currently amended) The medicament for preventing, inhibiting or treating adhesion formation according to Claim 4, wherein the chymase inhibitor is a concentrated preparation of enantiomer Suc-Val-Pro-L-Phe^P(OPh)₂ of Suc-Val-Pro-Phe^P(OPh)₂.
- 8. (Currently amended) The medicament for preventing, inhibiting or treating adhesion formation according to Claim 7, wherein Suc-Val-Pro-L-Phe^P(OPh)₂ contains 95% or more of the total weight of Suc-Val-Pro-Phe^P(OPh)₂ in the concentrated preparation of the enantiomer.
- 9. (Currently amended) The medicament for preventing, inhibiting or treating adhesion formation according to Claim 1, wherein the protease inhibitor is bound to a transmitter for maintaining an effective local concentration of the protease inhibitor in the relevant site and then administered, the transmitter being a carrier having a high molecular weight selected from the group consisting of hyaluronic acid, hydrogel, carboxymethylcellulose, dextran, cyclodextran and a composition of compounds thereof.
- 10. (Currently amended) The medicament for preventing, inhibiting or treating adhesion formation, wherein the medicament comprises the protease inhibitor according to Claim 1, and a pharmaceutically acceptable diluent solution or excipient.

04/10/2007 12:09 5404281721 KILYK BOWERSOX PLLC PAGE 05

U.S. Patent Application No. 10/544,254 Amendment dated April 10, 2007 Reply to Office Action of January 12, 2007

11. (Currently amended) A method for preventing, inhibiting or treating adhesion formation, wherein the medicament for preventing, inhibiting or treating adhesion formation according to Claim 1 is administered to a vertebrate subject before surgical operation, during the surgical operation, after the surgical operation, or in the case of possible inflammatory visceral adhesion.

- 12. (Currently amended) The medicament for preventing, inhibiting or treating adhesion formation according to Claim 2, wherein the protease inhibitor is bound to a transmitter for maintaining an effective local concentration of the protease inhibitor in the relevant site and then administered, the transmitter being a carrier having a high molecular weight selected from the group consisting of hyaluronic acid, hydrogel, carboxymethylcellulose, dextran, cyclodextran and a composition of compounds thereof.
- 13. (Currently amended) The medicament for preventing, inhibiting or treating adhesion formation according to Claim 3, wherein the protease inhibitor is bound to a transmitter for maintaining an effective local concentration of the protease inhibitor in the relevant site and then administered, the transmitter being a carrier having a high molecular weight selected from the group consisting of hyaluronic acid, hydrogel, carboxymethylcellulose, dextran, cyclodextran and a composition of compounds thereof.
- 14. (Currently amended) The medicament for preventing, inhibiting or treating adhesion formation according to Claim 4, wherein the protease inhibitor is bound to a transmitter for maintaining an effective local concentration of the protease inhibitor in the relevant site and then administered, the transmitter being a carrier having a high molecular weight selected from the

PAGE 5/14 * RCVD AT 4/10/2007 12:11:37 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/6 * DNIS:2738300 * CSID:5404281721 * DURATION (mm-ss):05-22

U.S. Patent Application No. 10/544,254 Amendment dated April 10, 2007 Reply to Office Action of January 12, 2007

group consisting of hyaluronic acid, hydrogel, carboxymethylcellulose, dextran, cyclodextran and a composition of compounds thereof.

- 15. (Currently amended) The medicament for preventing, inhibiting or treating adhesion formation according to Claim 5, wherein the protease inhibitor is bound to a transmitter for maintaining an effective local concentration of the protease inhibitor in the relevant site and then administered, the transmitter being a carrier having a high molecular weight selected from the group consisting of hyaluronic acid, hydrogel, carboxymethylcellulose, dextran, cyclodextran and a composition of compounds thereof.
- 16. (Currently amended) The medicament for preventing, inhibiting or treating adhesion formation according to Claim 6, wherein the protease inhibitor is bound to a transmitter for maintaining an effective local concentration of the protease inhibitor in the relevant site and then administered, the transmitter being a carrier having a high molecular weight selected from the group consisting of hyaluronic acid, hydrogel, carboxymethylcellulose, dextran, cyclodextran and a composition of compounds thereof.
- 17. (Currently amended) The medicament for preventing, inhibiting or treating adhesion formation according to Claim 7, wherein the protease inhibitor is bound to a transmitter for maintaining an effective local concentration of the protease inhibitor in the relevant site and then administered, the transmitter being a carrier having a high molecular weight selected from the group consisting of hyaluronic acid, hydrogel, carboxymethylcellulose, dextran, cyclodextran and a composition of compounds thereof.

U.S. Patent Application No. 10/544,254 Amendment dated April 10, 2007 Reply to Office Action of January 12, 2007

- 18. (Currently amended) The medicament for preventing, inhibiting or treating adhesion formation according to Claim 8, wherein the protease inhibitor is bound to a transmitter for maintaining an effective local concentration of the protease inhibitor in the relevant site and then administered, the transmitter being a carrier having a high molecular weight selected from the group consisting of hyaluronic acid, hydrogel, carboxymethylcellulose, dextran, cyclodextran and a composition of compounds thereof.
- 19. (Currently amended) The medicament for preventing, inhibiting or treating adhesion formation, wherein the medicament comprises the protease inhibitor according to Claim 2, and a pharmaceutically acceptable diluent solution or excipient.
- 20. (Currently amended) The medicament for preventing, inhibiting or treating adhesion formation, wherein the medicament comprises the protease inhibitor according to Claim 9, and a pharmaceutically acceptable diluent solution or excipient.